

## WHAT IS CLAIMED IS:

- Sub 17
- 5 1. An implantable tubular device formed substantially tubular and having a deformable portion formed on a peripheral surface thereof, with said deformable portion forming a predetermined angle with respect to an axial direction of said device and being easy to deform in comparison with a remainder part of said device.
- 10 2. An implantable device according to claim 1, wherein said device has a diameter so set that said device can be inserted into a lumen in a human body and capable of dilating radially upon application of a force acting radially outwardly from an interior of said tubular body,
- 15       said device comprising:  
a plurality of wavy annular members each formed of a wavy element and arranged in an axial direction of said device; and  
connection portions each connecting said wavy annular members to each other in the axial direction of said device;
- 20       wherein each of said wavy annular members has said deformable portion formed on a bent portion thereof not connected to the other wavy annular members in such a way that said deformable portion crosses said wavy annular member.
- 25 3. An implantable device according to claim 1, wherein said deformable portion consists of a groove formed on an inner surface of said device or on an outer surface thereof or on both said inner and outer surfaces thereof.
- 30 4. An implantable device according to claim 3, wherein a depth of said groove is set to 5 - 50% of a thickness of said device.

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5. An implantable device according to claim 1, wherein said deformable portion forms 20 - 90° with the axial direction of said device.

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6. An implantable device according to claim 1, wherein said deformable portion is formed in a plural number; and so formed that when said deformable portion is prolonged, said deformable portion continuously goes around a periphery of said device.

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7. An implantable device according to claim 1, wherein said deformable portion is so formed that when said deformable portion is prolonged, a spiral is formed on the periphery of said device.

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8. An implantable device according to claim 1, wherein said deformable portion is formed entirely on said device.

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9. An implantable device according to claim 1, wherein said deformable portion is formed in a plural number and an interval between said deformable portions in the axial direction of said device is 0.01 - 1mm.

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10. An implantable device according to claim 1, wherein said device consists of a stent or a stent graft.

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11. An implantable device according to claim 1, wherein said device is formed by the step of forming a spiral deformable portion-provided tubular body by connecting axially adjacent coiled wire members to each other directly or indirectly and the step of removing a portion of said tubular body other than a portion thereof

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which is to be formed as said device.

12. An implantable device according to claim 1, wherein said device is formed by the step of forming an annular deformable portions-provided tubular body by directly or indirectly connecting ring members so disposed parallel to each other as to form a cylindrical shape and the step of removing a portion of said tubular body other than a portion thereof which is to be formed as said device.

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13. An implantable device according to claim 3, wherein a depth of said groove is set to 1 - 99% of a thickness of said device.

14. An implantable device according to claim 1, wherein said device carries a medicine, a bioprosthetic material or a biosynthesis material.

15. An implantable device according to claim 1, wherein at least one part of the outer surface of said device is coated with a coating material made of a biocompatible material, a biodegradable material or a synthetic resin.

16. An implantable device according to claim 1, wherein at least one part of an outer surface of said deformable portion is coated with a coating material made of a biocompatible material, a biodegradable material or a synthetic resin.

17. An implantable device according to claim 15, wherein said coating material carries a medicine, a bioprosthetic material or a biosynthesis material.

18. An implantable device according to claim 15, wherein said coating material is formed of a biodegradable material to which a medicine, a bioprosthetic material or a biosynthesis material is added.

19. An implantable device according to claim 14, wherein said medicine contains at least one pharmaceutical selected from the group consisting of a medicine for preventing intimal hyperplasia, a carcinostatic agent, an immunosuppressor, an antibiotic, an antirheumatic, an antithrombotic drug, HMG-CoA reductase inhibitor, an ACE inhibitor, a calcium antagonist, an anti-hyperlipidemia agent, anti-inflammatory agent, an integrins inhibitor, an antiallergic agent, an antioxidant, a GP II b III a antagonist, retinoids, flavonoids, carotenoids, a lipid-improving agent, a DNA-synthesis inhibitor, a tyrosine kinase inhibitor, an antiplatelet agent, a vascular smooth muscle cell proliferation inhibitor, an anti-inflammatory agent, a bioprosthetic material and interferon.

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